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Docket No.: 11613.29USD1
Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS
PROTEIN PRODUCT

Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311 Sheet 1 of 20

Brain նսոշ Kidney Liver Testies Spleen Heart

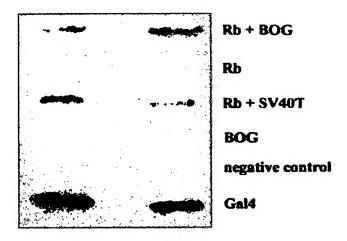
Inventor: THORGEIRSSON ET AL.

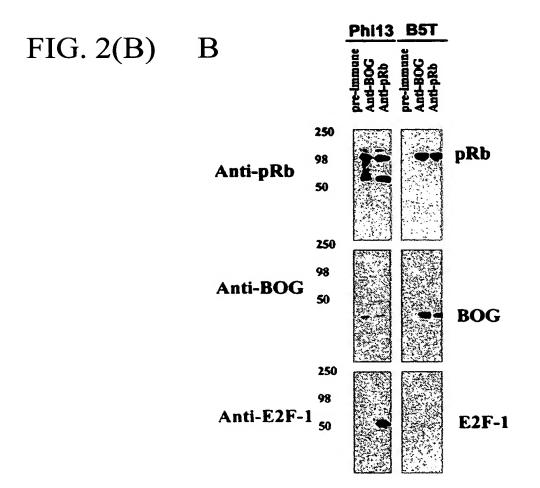
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Title: cDNA ENCODING A GENE BOG (BST OVER-EXPRESSED GENE) AND ITS
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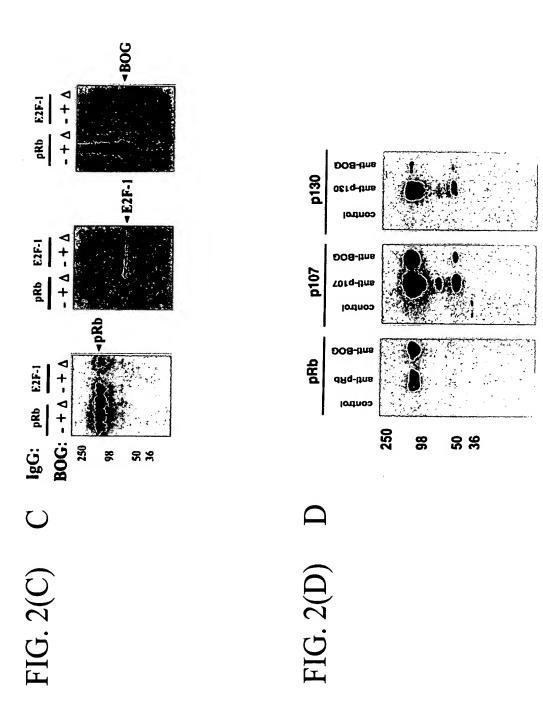




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Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311

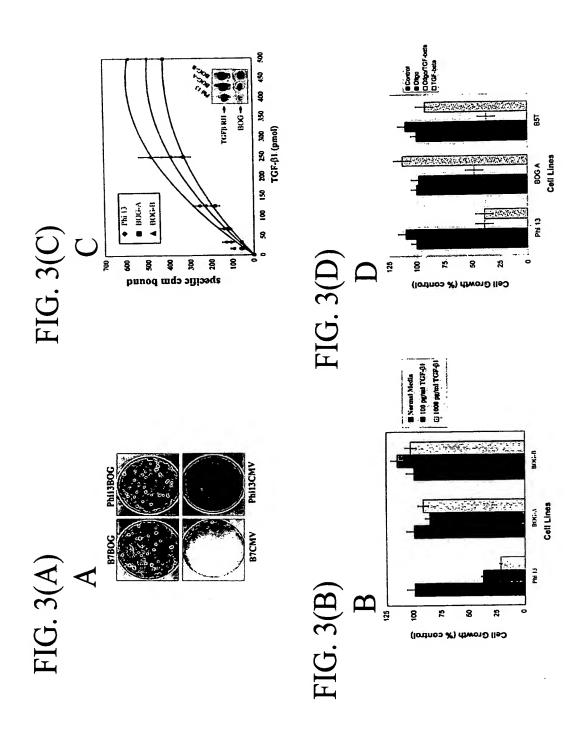
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Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS
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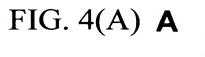
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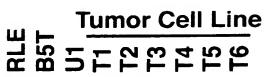




FIG. 4(B) **B**

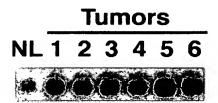
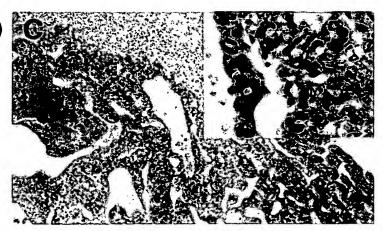


FIG. 4(C)



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BLAST SEARCH RESULTS

	Name	Genbank number	Probality P(N)
1	Stratagene mouse melanoma cDNA cione 68379	AA125076 (mq83h10.r1)	1.6 e-160
2	Life Tech mouse embryo cDNA 10 6dpc clone 667161	AA111519 (me51h08.r1)	1.5 e-148
3	Soares mouse 3NbMS cDNA clone 622827	AA184284 (mt33b02.r1)	2.0 •-128
4	Stratagene mouse embryonic carcinomaRA cDNA cione 535882	AA105466 (mm82c08.r1)	1.0 e-120
5	WATMI Homosapiens cDNA clone 60i115	NZ268 (EST601116)	1,4 e-90

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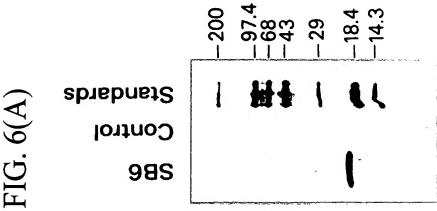
Docket No.: 11613.29USD1

Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN PRODUCT

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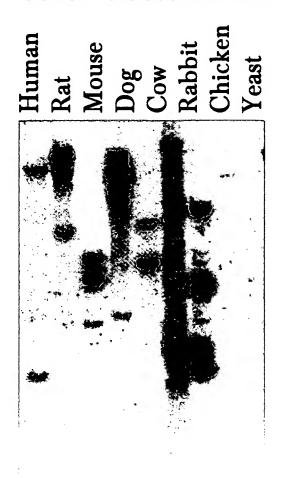
Heart Brain Spleen Bun7 Liver Skel. muscle Kidney **Zesties**



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FIG. 7

Genomic Southern Blot



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FIG. 8(A)

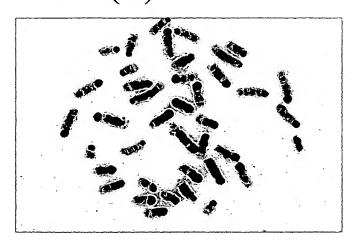
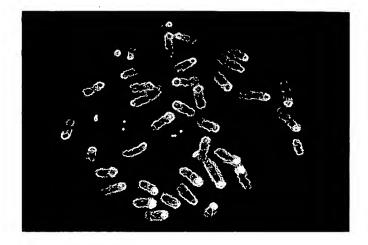
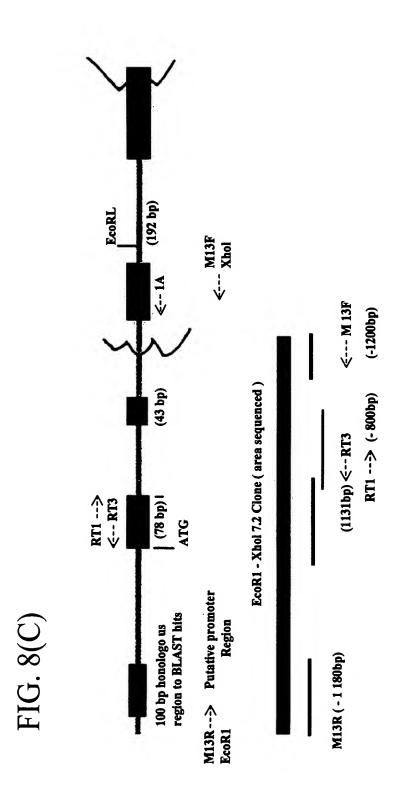


FIG. 8(B)



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Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS
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FIG. 9

FIG. 9(A)

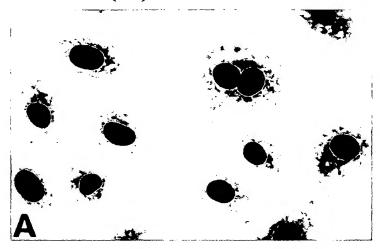
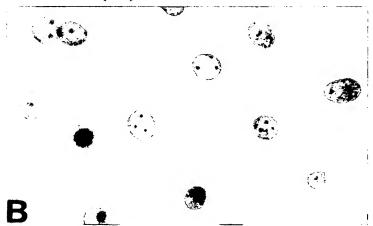


FIG. 9(B)



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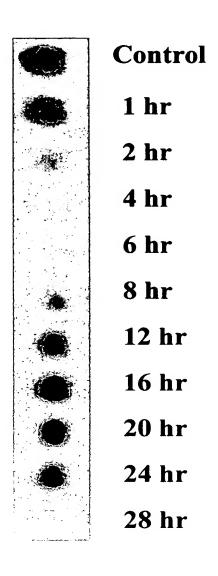
%2.0 13 81 ОООИ 9 69 12 Noco **₽**4dA **₽**4dA 58 37 5 **4dA 4dA** mim mim ٨٥٦ ٨٥٦ %2.0 FIG. 10(B) RLE

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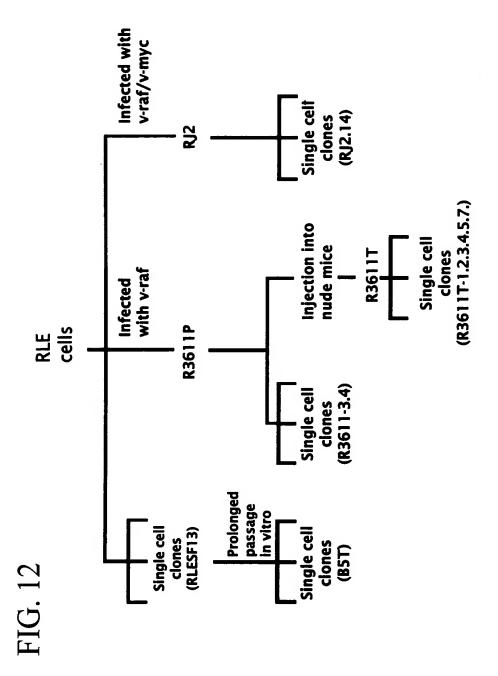
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FIG. 11



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FIG. 13A

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```
Sequence
RLHEXRT-3
       00001
                  CAGAGCCCTGAAAGGTTGTTGCATGAGCCCGTGAAAGTGGAGTTTCAGTG
                                 <---- NF-W1
                                                  (16.00 2.0000)
                                 <---- NF-W2
                                                  (16.00 2.0000)
                                       <---- Zeste
                                                       (12.00 2.0000)
                                              Zeste
                                                       (12.00 2.0000)
                                             ----> BAF1 (10.00 0.8333)
       00051
                  GTAGTGGATAGCATAGGACACTGGAGACACAGTTCATGTCCAGCATTCAT
                   <---- C/EBP
                                     (13.00\ 1.6250)
                   <---- C/EBP
                                     (13.00\ 1.6250)
                   (13.00\ 1.6250)
                   <----- C/EBP
                                     (13.00 1.6250)
                      ----> NF-E
                                    (10.00 2.0000)
                                  -> GR
                                         (12.00 2.0000)
                                      ----> ADR1
                                                   (10.00 2.0000)
                                         <---- GR
                                                     (12.00 2.0000)
                                                         ----> CBF (2) (16.00 1.6000)
                                                         ----> SRF
                                                                            (16.00\ 1.6000)
                                                          <----- Pit-la
                                                                            (14.00 2.0000)
       00101
                  GGAGTGGGAGCAGAGGTTCCCTGAAGCTCACTGGCTAGTATTCTTGCTA
                          <---- GR
                                      (10.00 2.0000)
                                                          ----> AGP/EBP
                                                                               (10.00 1.1111)
                                                          ----> C/EBP
                                                                              (11.00 1.2222)
                                                          ----> <u>C/EB</u>P
                                                                             (11.00 1.2222)
                                                          ----> C/EBP
                                                                              (11.00 1.2222)
                                                          ----> <u>C/EBP</u>
                                                                              (11.00 1.2222)
                                                          -----> <u>C/EBP</u>
                                                                              (11.00 \ 1.2222)
                                                          ----> <u>LAP</u>
                                                                            (10.00 1.1111)
                                                          ----> NF-IL6
                                                                               (10.00 1.1111)
```

-----> NF-IL6beta

<---- CP2

----> <u>CPIA</u>

(10.00 1.1111)

 $(10.00\ 0.9091)$

(14.00 2.0000)

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FIG. 13B

```
CPIB
                                                                       (14.00 2.0000)
                                                               ACF
                                                                      (14.00 2.0000)
00151
          AACCAATGAGCTCCAAATTCACAGATCTTGTCGCAAAACCCAAATGTAAT
           ----> C/EBP
                             (10.00 2.0000)
           ----> CBF (1)
                               (10.00\ 2.0000)
           ----> CBF (2)
                               (10.00 2.0000)
           ----> CBF-A
                             (10.00 2.0000)
           ----> CBF-B
                             (10.00 2.0000)
           ----> CCAAT-binding factor
                                           (10.00 2.0000)
           ----> CDF
                            (10.00 2.0000)
           ----> CRF
                            (10.00 2.0000)
           ----> CTF
                            (10.00 2.0000)
           ----> NF-Y
                             (10.00 2.0000)
           -----> NF-Y'
                             (10.00 2.0000)
           <----- alpha-CBF
                                 (10.00 2.0000)
           <---- alpha-CP1
                                 (10.00 2.0000)
           <----- alpha-CP2a, alpha-CP2b
                                             (10.00 2.0000)
           <---- alpha-IRP
                                 (10.00 2.0000)
           <----- CDP
                            (10.00 2.0000)
           <---- CDP2
                             (10.00 2.0000)
           <---- Clox
                             (10.00 2.0000)
           <---- CP1
                            (10.00 2.0000)
           <---- CP1
                            (10.00\ 2.0000)
           <----- CP2
                            (10.00 2.0000)
           <----- <u>Cux</u>
                            (10.00 2.0000)
           <---- En
                           (16.00 \ 1.6000)
           <---- H1TF2
                              (10.00 2.0000)
           <---- NF-1
                             (10.00 2.0000)
           <---- NF-E
                             (10.00 2.0000)
           <---- NF-E
                             (10.00 2.0000)
                            (10.00 2.0000)
           <---- SRF
           <----- TGGCA-binding protein
                                             (10.00 2.0000)
                          ----> Hinf-A
                                            (12.00 1.0000)
                                           ----- CP2
                                                         (10.00 \ 0.9091)
                                                      --> IUF-1
                                                                  (10.00\ 1.6667)
                                                        -----> HiNF-A
                                                                          (12.00\ 1.0000)
                                                       <---- AGP/EBP
                                                                           (10.00 1.1111)
                                                       <---- AP 3 (2)
                                                                            (13.00 1.6250)
                                                       <----- IqPE-1
                                                                          (16.00 2.0000)
                                                       <----- LAP
                                                                       (10.00 1.1111)
                                                       <---- NF-IL6
                                                                          (10.00 1.1111)
                                                       <---- NF-IL6beta
                                                                              (10.00 1.1111)
00201
           GTGGAAATGAAGGAAAAGAAGACACCCAACACTGACTGAATATGGTGACA
           <----- HSF
                                 (14.00 \ 0.9333)
           <----- HSF
                                 (14.00 \ 0.9333)
           <----- HSF
                                 (14.00 \ 0.9333)
            <----- HSF1
                               (long)
                                        (14.00 \ 0.9333)
            <----- HSF1
                                         (14.00 \ 0.9333)
                               (short)
```

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FIG. 13C

```
<----- HSF1 (14.00 0.9333)
                               (12.00 2.0000)
                ----> c-Ets-2
                 <---- c-Ets-1 54 (11.00 1.8333)
                 <---- c-Ets-1 68 (11.00 1.8333)
                 <---- c-Ets-2 58-64 (11.00 1.8333)
                 <---- PEA3
                              (11.00 1.8333)
                 <---- PEA3
                              (11.00 1.8333)
                 <---- PEA3
                             (11.00 1.8333)
                      ----> GR (12.00 2.0000)
                            <---- CACCC-binding factor
                                                       (10.00\ 2.0000)
                            <---- gammaCAC1 (10.00 2.0000)
                            <---- gammaCAC2
                                           (10.00 2.0000)
                                    -----> AP-1
                                                 (16.00 2.0000)
                                     ----> GCN4
                                                   (12.00 2.0000)
                                       -----> delta factor
                                                                (12.00\ 1.0909)
                                       ----> <u>YY1</u> (12.00 1.0909)
                                           <---- myc-CF1 (10.00 1.6667)
                                                   ----> p300
                                                                (14.00 2.0000)
00251
          ----> NF-1/L
                              (10.00 2.0000)
                        ----> GCN4
                                     (12.00\ 2.0000)
                       <---- Zeste
                                    (12.00 2.0000)
                       <---- Zeste
                                    (12.00 2.0000)
                             ---> ADR1 (10.00 2.0000)
                                       ----> LVc
                                                   (10.00\ 2.0000)
                                                     ----> Zeste
                                                                  (10.00 2.0000)
                                                     ----> Zeste
                                                                   (10.00 2.0000)
00301
          TGAGTTCTAGGCCAGTCTGGTTTACATAGACAGCTCCAGGCCAGTAAGGG
          <---- GR
                      (12.00 2.0000)
                        -----> NF-IL-2A
                                            (16.00\ 1.6000)
                           ----> Oct-1 (16.00 1.6000)
                           ----> Oct-2.1
                                         (16.00 1.6000)
                         <----- VBP
                                           (20.00 1.6667)
                                 ----> NF-E
                                              (10.00 2.0000)
                                                   <---- T-Ag
                                                               (10.00 2.0000)
                                                     ----> E4BP4 (12.00 1.2000)
00351
          GCTAGCTAATGAAACTGTCTTAAACAAATTAACCAACGTTCATTTGAAAA
             ----> IUF-1 (10.00 1.6667)
               <---- STE12 (16.00 2.0000)
                               (10.00 2.0000)
                            <----- Ftz
                                             (18.00 1.6364)
                             -----> HOXA5
                                             (10.00\ 1.0000)
                                   ----> c-Ets-2 (12.00 2.0000)
                                          <----- EcR (11.00 1.0000)
                                              ----> <u>TEI</u>ID
                                                          (12.00 2.0000)
                                                      ----> НЪ
                                                                (20.00 2.0000)
00401
          AAAATAAACCTTCCTTAAAGAAGTATTGGTACAACTAATAAAAAGATAAC
                -----> AGP/EBP
                                 (10.00 1.1111)
```

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FIG. 13D

```
(11.00 1.8333)
-----> c-Ets-1 54
-----> c-Ets-1 68
                         (11.00 1.8333)
----> c-Ets-2 58-64
                            (11.00 1.8333)
----> LAP
                  (10.00 1.1111)
-----> NF-IL6
                     (10.00 1.1111)
----> NF-IL6beta
                         (10.00 1.1111)
                   (11.00 1.8333)
-----> PEA3
-----> PEA3
                   (11.00 1.8333)
----> PEA3
                   (11.00 1.8333)
<---- kappay factor
                            (16.00 2.0000)
 <---- c-Ets-2
                    (12.00\ 2.0000)
                  --> alpha-CBF
                                    (10.00 2.0000)
                ----> alpha-CP1
                                    (10.00 2.0000)
                ----> alpha-CP2A,
                                  alpha-CP2b
                                                  (10.00 2.0000)
                ----> alpha-IRP
                                   (10.00\ 2.0000)
                ----> CDP
                             (10.00 2.0000)
                ----> CDP2
                              (10.00 2.0000)
                ----> Clox
                              (10.00 2.0000)
                ----> CP1
                             (10.00 2.0000)
                ----> <u>CP1</u>
                             (10.00\ 2.0000)
                ----> CP2
                             (10.00 2.0000)
                ----> Cux
                             (10.00 2.0000)
                ----> H1TF2
                               (10.00 2.0000)
                ----> NF-1
                              (10.00 2.0000)
                ----> NF-E
                              (10.00\ 2.0000)
                ----> NF-E
                              (10.00 2.0000)
                ----> SRF
                              (10.00 2.0000)
                ----> TGGCA-binding protein
                                                 (10.00 2.0000)
                <---- C/EBP
                               (10.00 2.0000)
                <---- CBF (1)
                                  (10.00\ 2.0000)
                <---- CBF (2)
                                  (10.00 2.0000)
                <---- CBF-A
                                (10.00\ 2.0000)
                <---- CBF-B
                                (10.00 2.0000)
                   -- CCAAT-binding factor
                                               (10.00 2.0000)
                <---- CDF
                             (10.00\ 2.0000)
                <---- CRF
                              (10.00 2.0000)
                <---- CTF
                             (10.00 2.0000)
                <---- NF-Y
                              (10.00 2.0000)
                <---- NF-Y'
                               (10.00 2.0000)
                               ----> HOXA5
                                              (10.00\ 1.0000)
                                ----> Hb
                                                  (16.00 \ 1.6000)
                                    ----> GATA-1
                                                      (12.00 2.0000)
                                    <---- GATA-1
                                                      (10.00 \ 1.6667)
                                    <---- GATA-1
                                                      (10.00 \ 1.6667)
                                    <---- GATA-1
                                                      (10.00 \ 1.6667)
                                    <---- GATA-2
                                                      (10.00 1.6667)
                                    <---- GATA-2
                                                      (10.00 \ 1.6667)
                                    <---- GATA-2
                                                      (10.00 \ 1.6667)
```

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FIG. 13E

```
<---- GATA-2
                                                               (12.00 2.0000)
                                              <---- GATA-3
                                                               (10.00 1.6667)
                                              <---- GATA-3
                                                               (10.00 \ 1.6667)
                                              <---- GATA-3
                                                               (10.00 \ 1.6667)
                                              <---- GATA-3
                                                               (10.00 \ 1.6667)
                                              <---- GATA-3
                                                               (10.00 1.6667)
                                              <---- NF-E1b
                                                               (10.00 \ 1.6667)
                                              <---- NF-E1c
                                                                (10.00 \ 1.6667)
                                                               (10.00 2.0000)
                                               ----> DBF-A
                                               <---- GAL4
                                                              (10.00 2.0000)
                                               <---- TBP
                                                             (10.00 2.0000)
00451
           ACATTATGAGCACGCTGTTGCCAGCACATAAGGGATGTGGAGTATGAGAA
                                            (10.00 2.0000)
                            ----> NF-1/L
                                          ----> GCR1
                                                        (10.00 2.0000)
                                                 ----> C/EBP
                                                                    (14.00 \ 1.7500)
                                                 ----> C/EBP
                                                                    (14.00 1.7500)
                                                 ----> C/EBP
                                                                    (14.00 1.7500)
                                                 ----> C/EBP
                                                                    (14.00 1.7500)
                                                  ----> C/EBP
                                                                    (14.00 1.7500)
00501
           GCGTGGAAAAGGGGTAAATCAAAGATAATTAATATTTGATGGTAATTCAC
            <---- AGP/EBP
                               (13.00\ 1.8571)
                 -----> Hinf-A
                                        (12.00 1.0000)
                  <---- Kr
                                   (16.00 1.6000)
                        <---- Pit-la
                                        (10.00 2.0000)
                                ----> GATA-1
                                                  (12.00 2.0000)
                                <---- GATA-1
                                                  (10.00 \ 1.6667)
                                <---- GATA-1
                                                  (10.00 \ 1.6667)
                                <---- GATA-1
                                                  (10.00 1.6667)
                                <---- GATA-2
                                                  (10.00 1.6667)
                                <---- GATA-2
                                                  (10.00 1.6667)
                                <---- GATA-2
                                                  (10.00 \ 1.6667)
                                <---- GATA-2
                                                  (12.00\ 2.0000)
                                <---- GATA-3
                                                  (10.00 1.6667)
                                <---- GATA-3
                                                  (10.00 1.6667)
                                <---- GATA-3
                                                  (10.00 \ 1.6667)
                                <---- GATA-3
                                                  (10.00 \ 1.6667)
                                <---- GATA-3
                                                  (10.00 \ 1.6667)
                                <---- NF-E1b
                                                  (10.00 \ 1.6667)
                                <---- NF-E1c
                                                  (10.00 1.6667)
                                 ----> DBF-A
                                                      (10.00 2.0000)
                                 ----> HOXA5
                                                      (10.00 \ 1.0000)
                                 <---- GAL4
                                                     (10.00 2.0000)
                                 <---- TBP
                                                    (10.00 2.0000)
                                     <---- N-Oct-3
                                                        (12.00 1.7143)
                                    <---- N-Oct-3
                                                        (12.00\ 1.7143)
                                    <---- N-Oct-3
                                                        (12.00\ 1.7143)
00551
            AGGTTTGAGTTTAGCTGCCTGTGCTTTAGCCAGAAAATGCGTAGGCCTGC
```

(10.00 2.0000)

Inventor: THORGEIRSSON ET AL.
Docket No.: 11613.29USDI
Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS
PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK

Phone No.: 612.371.5311

Sheet 20 of 20

FIG. 13F

```
----> Zeste
                            (10.00 2.0000)
                              <----- CP2
                                                 (11.00\ 1.0000)
                                                    ----> Kerl
                                                                      (16.00\ 1.6000)
                                                     <---- LVc
                                                                  (10.00 2.0000)
00601
           AGGTATCCAAGAACTACAATTCCCAGAAGTCCGCAGTGCAGGCTCTGGGC
                  ----> GR
                              (12.00\ 2.0000)
                            -----> AGP/EBP
                                                (13.00\ 1.8571)
                            ----> IL-6 RE-BP
                                                 (18.00 2.0000)
                            -----> IL-6 RE-BP
                                                   (18.00\ 2.0000)
                                          <---- Sp1
                                                           (16.00 1.6000)
                                           ----> Sp1
                                                        (10.00 2.0000)
                                             ----> LVc
                                                         (10.00 2.0000)
                                             ----> GAL4
                                                          (10.00 2.0000)
                                                ----> GR
                                                           (10.00 2.0000)
                                                   <---- T-Ag
                                                                (10.00 2.0000)
                                                    -----> GCF
                                                                  (10.00\ 1.4286)
                                                     <---- E1k-1
                                                                        (10.00 1.0000)
                                                      <---- c-Ets-1
                                                                           (16.00\ 1.6000)
                                                       <---- c-Ets-1 54
                                                                             (12.00 \ 1.5000)
                                                       <---- c-Ets-1 68
                                                                             (12.00\ 1.5000)
                                                       <---- c-Ets-1
                                                                          (12.00\ 1.5000)
                                                       <---- PEA3
                                                                       (12.00\ 1.5000)
                                                       <---- PEA3
                                                                       (12.00\ 1.5000)
                                                       <---- PEA3
                                                                       (12.00 \ 1.5000)
                                                        -----> Bcd
                                                                         (16.00 \ 1.6000)
                                                        <----- Ela-F
                                                                           (14.00 2.0000)
00651
           CGGATGTAGTCTTGGTCTGAGAGCTGCTGGTCCAAGCTGGGCAAGGTCTC
          ----> GCR1
                       (10.00 2.0000)
             <---- EFII
                                (18.00 1.6364)
                                    <---- H4TF-2
                                                    (10.00 2.0000)
                                         <----- GCF
                                                           (10.00\ 1.0000)
                                             <---- T-Ag
                                                           (10.00 2.0000)
                                              <---- LF-A1
                                                           (10.00 2.0000)
                                                 <---- ELP
                                                              (14.00\ 2.0000)
                                                      <---- ADR1
                                                                   (10.00 2.0000)
00701
           CCACGTCTACATTC
```